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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/733,149	12/11/2003	Kuo-Chang Yang	251702-1300	7383
24504	7590	12/01/2005	EXAMINER	
THOMAS, KAYDEN, HORSTEMEYER & RISLEY, LLP 100 GALLERIA PARKWAY, NW STE 1750 ATLANTA, GA 30339-5948			CHANG, YEAN HSI	
			ART UNIT	PAPER NUMBER
			2835	

DATE MAILED: 12/01/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/733,149	YANG ET AL.	
	Examiner	Art Unit	
	Yean-Hsi Chang	2835	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 11 December 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-22 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-22 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 11 December 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-6 and 12-17 are rejected under 35 U.S.C. 102(b) as being anticipated by Kato et al. (US 5,943,208).

Kato teaches an electronic device (1, fig. 1) comprising: a housing (shown in fig. 1), a main board (30) disposed in the housing and having a first connector (inherent feature not shown), a hard disk drive (42) having a second connector (inherent feature not shown) connected to the first connector, and a fixing assembly (for example, 10 or 20) for connecting and fixing the hard drive to the electronic device, comprising: a mounting bracket (10 or 20) engaging the hard disk drive (shown in fig. 19, also see col. 6), and a cover (40) flexibly connected to the mounting bracket and engaging the electronic device (claims 1 and 12); wherein the mounting bracket comprises a first engaging portion (23), and the cover comprises a second engaging portion (at end of 40) flexibly connected to the first engaging portion (claims 2 and 13); wherein the first engaging portion is a hook (upper end of 23, fig. 20D) and the second engaging portion is a groove (shown in fig. 20D), and the hook engages the groove to prevent the hard

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drive from moving along an X axis (up and down) (claims 3 and 14); wherein the width of the groove exceeds the width of the hook such that the hard disk drive can move a predetermined distance along a Y axis (in and out) (claims 4 and 15); wherein the mounting bracket further comprises a first protrusion (23) and the cover further comprises a second protrusion (40b), and the second protrusion holds the first protrusion to limit the motion of the hard drive (shown in fig. 20D) (claims 5 and 16); and wherein the first protrusion is a nose (shown in fig. 20D) and the second protrusion is an angled lock (40b making an angle with the end edge of 40), the angled lock holds the nose to limit the motion of the hard drive along a Z axis (for example, left and right), and a gap is formed between the nose and the angled lock such that the hard drive can move a predetermined distance along the Z axis (shown in fig. 20B) (claims 6 and 17).

3. Claims 1, 7, 12 and 18 are rejected under 35 U.S.C. 102(b) as being anticipated by Blackborow et al. (US 5,253,129).

Blackborow an electronic device (11, fig. 1) comprising: a housing (not labeled), a main board (16) disposed in the housing and having a first connector (20), a hard disk drive (32) having a second connector (20) connected to the first connector, and a fixing assembly (12) for connecting and fixing the hard drive to the electronic device, comprising: a mounting bracket (34) engaging the hard disk drive (shown in fig. 2), and a cover (96) flexibly connected to the mounting bracket and engaging the electronic device (claims 1 and 12); and an elastic member (for example, 95) disposed between the mounting bracket and the cover (fig. 2A) to absorb vibration (claims 7 and 18).

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 8-11 and 19-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Blackborow et al. in view of Gamble et al. (US 6,431,718 B1).

Blackborow discloses the invention claimed in claims 1, 7, 12 and 18 as discussed in section 3, hereinabove, and teaches also that the mounting bracket (34) including a face (36) and two flanges (38 and 40) extending from each end of the face, the elastic member being disposed between the face and a front plate (shown in fig. 2A, not labeled), between the flanges and side plates, and between the hard disk drive and the bottom plate (elastic member 92, shown in fig. 2), except the cover including two side plates disposed at opposing ends of a bottom plate connected to a front plate forming an L shape, and the side plates to connect the front plate and the bottom plate.

Gamble teaches a mounting assembly (11, fig. 1, or 111, fig. 18) for mounting a hard disk drive (134), comprising a mounting bracket (13) having a front face (17), and a cover (21) having a face plate, a bottom plate, and two side plates connecting the face plate and the bottom plate (as shown in fig. 2, all plates are not labeled).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the cover of the mounting assembly of Blackborow with the side plates of the cover taught by Gamble for keeping the hard disk drive more steady in horizontal directions since both of them are used to mount a hard disk drive.

Correspondence

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yean-Hsi Chang whose telephone number is (571) 272-2038. The examiner can normally be reached on 07:30 - 16:00, Monday through Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the Art Unit phone number is (571) 272-2800, ext. 35. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-8558.

Yean-Hsi Chang
Primary Examiner
Art Unit: 2835
November 29, 2005



YEAN-HSI CHANG
PRIMARY EXAMINER